Journal of Nuclear Materials 202 (1993) 293–294
North-Holland

journal of nuclear materials

Author index

Aerne, E.T., see Zwicky, H.U. 202 (1993) 65
Aliabev, V.M., see Sagaradze, V.V. 202 (1993) 137
Ameyama, K., see Nakata, K. 202 (1993) 39
Arai, Y., M. Morihira and T. Ohmichi, The effect of oxygen impurity on the characteristics of uranium and uranium–plutonium mixed nitride fuels 202 (1993) 70
Atzmon, M., see Cookson, J.M. 202 (1993) 104

Bagger, C., see Mogensen, M. 202 (1993) 199
Behrisch, R. and G. Venus, Heat removal by the divertor plate and limiter materials in fusion reactors 202 (1993) 1
Boltax, A., see Foster, J.P. 202 (1993) 275
Borodin, V.A., A.I. Ryazanov and D.G. Sherstennikov, Low-temperature swelling of metals and ceramics 202 (1993) 169
Borrelly, R., see Loucif, K. 202 (1993) 193

Carter, Jr., R.D., see Cookson, J.M. 202 (1993) 104
Chang, M.-Y. and G.-P. Yu, Pitting corrosion of Inconel 600 in chloride and sulfate solutions at low temperature 202 (1993) 145
Chattopadhyay, G. and J.M. Juneja, A thermodynamic database for tellurium-bearing systems relevant to nuclear technology 202 (1993) 10
Cookson, J.M., R.D. Carter Jr., D.L. Damcott, M. Atzmon and G.S. Was, Irradiation assisted stress corrosion cracking of controlled purity 304L stainless steels 202 (1993) 104
Cox, B., Chemical dissolution of ZrO_2 during oxide stripping 202 (1993) 286

Damcott, D.L., see Cookson, J.M. 202 (1993) 104
Denis, A., see Piotrkowski, R. 202 (1993) 252
Ding, Y. and D.O. Northwood, Effects of LiOH on the microstructure of the oxide formed during the aqueous corrosion of a Zr–2.5 wt% Nb alloy 202 (1993) 180

Eloff, G.A., C.J. Greyling and P.E. Viljoen, Improvement in oxidation resistance of Zircaloy-4 by surface alloying with a thin layer of palladium 202 (1993) 239
Etoh, Y., S. Shimada and H. Takahashi, Surface improvement of Zr and Zircaloy-2 by metal implantation 202 (1993) 122

Foster, J.P., T.K. Houghtaling and A. Boltax, Bowing behavior of a cold-worked 316 stainless steel duct 202 (1993) 275
Fujino, T., T. Yamashita, K. Ohuchi, K. Naito and T. Tsuji, High temperature electrical conductivity and conduction mechanism of $(U, Pu)O_{2\pm x}$ at low oxygen partial pressures 202 (1993) 154
Fukai, K., see Nakata, K. 202 (1993) 39
Fukuda, K., see Minato, K. 202 (1993) 47
Fukuda, K., see Shiratori, T. 202 (1993) 98

Ganguly, C., see Jain, G.C. 202 (1993) 245
García, E.A., see Piotrkowski, R. 202 (1993) 252
Greyling, C.J., see Eloff, G.A. 202 (1993) 239

Harding, J.H., The effect of alloying elements on Zircaloy corrosion 202 (1993) 216
Hasegawa, A., N. Yamamoto and H. Shiraishi, Effect of helium implantation at 533–573 K on tensile properties of 9Cr martensitic steels 202 (1993) 266
Hayakawa, I. and H. Kamizono, Durability of an $La_2Zr_2O_7$ waste form containing various amounts of simulated HLW elements 202 (1993) 163
Hayes, S.L. and K.L. Peddicord, Radiative heat transfer in porous uranium dioxide 202 (1993) 87
Hermann, A., see Zwicky, H.U. 202 (1993) 65
Hishinuma, A., see Nakata, K. 202 (1993) 39
Houghtaling, T.K., see Foster, J.P. 202 (1993) 275

Jain, G.C. and C. Ganguly, Experimental evaluation of oxygen solubility in UN, PuN and (U, Pu)N 202 (1993) 245
Juneja, J.M., see Chattopadhyay, G. 202 (1993) 10
Jung, P., Diffusion and retention of implanted helium in beryllium 202 (1993) 210
Jung, P., see Zhu, Z. 202 (1993) 222

Kado, S., see Minato, K. 202 (1993) 47
Kamizono, H., see Hayakawa, I. 202 (1993) 163

Klein, H., see Zhu, Z. 202 (1993) 222
Knudsen, P., see Mogensen, M. 202 (1993) 199
Kondo, T., see Tsuji, H. 202 (1993) 79
Kovacs, J., see Piotrkowski, R. 202 (1993) 252

Lapin, S.S., see Sagaradze, V.V. 202 (1993) 137
Lippens, M., see Zwicky, H.U. 202 (1993) 65
Loucif, K., P. Merle and R. Borrelly, On the thermoelectric power variation according to temperature of zirconium alloys and its possible application to the estimation of the amount of solubility variations of iron and chromium in Zircaloy 202 (1993) 193

Maamouri, M., see Munier, A. 202 (1993) 54
Mercier, O., see Munier, A. 202 (1993) 54
Merle, P., see Loucif, K. 202 (1993) 193
Merola, M., Figure of merit to quantify the sensitivity of materials to runaway electrons in a fusion reactor 202 (1993) 29
Minato, K., T. Ogawa, K. Fukuda, H. Sekino, H. Miyanishi, S. Kado and I. Takahashi, Release behavior of metallic fission products from HTGR fuel particles at 1600 to 1900°C 202 (1993) 47
Miyanishi, H., see Minato, K. 202 (1993) 47
Mogensen, M., C. Bagger, H. Toftegaard, P. Knudsen and C.T. Walker, Observations of athermal gas release from water-reactor fuel at extended burnup 202 (1993) 199
Morihira, M., see Arai, Y. 202 (1993) 70
Munier, A., M. Maamouri, R. Schaller and O. Mercier, Mechanical properties of reactor pressure vessel steels studied by static and dynamic torsion tests 202 (1993) 54

Nagasaki, T., M. Saidoh, R. Yamada and H. Ohno, Ion-driven permeation and surface recombination coefficient of deuterium for ion 202 (1993) 228
Naito, K., see Fujino, T. 202 (1993) 154
Nakajima, H., see Tsuji, H. 202 (1993) 79
Nakata, K., K. Fukai, A. Hishinuma, K. Ameyama and M. Tokizane, Dislocation loop and cavity formation under He-ion irradiation in a Ti-rich TiAl intermetallic compound 202 (1993) 39
Nalesnik, V.M., see Sagaradze, V.V. 202 (1993) 137
Northwood, D.O., see Ding, Y. 202 (1993) 180

Ogawa, T., see Minato, K. 202 (1993) 47
Ohmichi, T., see Arai, Y. 202 (1993) 70
Ohno, H., see Nagasaki, T. 202 (1993) 228
Ohuchi, K., see Fujino, T. 202 (1993) 154

Peddicord, K.L., see Hayes, S.L. 202 (1993) 87
Piotrkowski, R., A. Denis, J. Kovacs and E.A. García, Materials interactions during high temperature transients: Discussion about the use of the kinetic rate constants in Zircaloy oxidation 202 (1993) 252

Ryazanov, A.I., see Borodin, V.A. 202 (1993) 169

Sagaradze, V.V., V.M. Nalesnik, S.S. Lapin and V.M. Aliabev, Precipitation hardening and radiation damageability of austenitic stainless steels 202 (1993) 137
Saidoh, M., see Nagasaki, T. 202 (1993) 228
Schaller, R., see Munier, A. 202 (1993) 54
Sekino, H., see Minato, K. 202 (1993) 47
Sherstennikov, D.G., see Borodin, V.A. 202 (1993) 169
Shimada, S., see Etoh, Y. 202 (1993) 122
Shiraishi, H., see Hasegawa, A. 202 (1993) 266
Shiratori, T. and K. Fukuda, Fabrication of very high density fuel pellets of thorium dioxide 202 (1993) 98

Takahashi, H., see Etoh, Y. 202 (1993) 122
Takahashi, I., see Minato, K. 202 (1993) 47
Thomi, H.A., see Zwicky, H.U. 202 (1993) 65
Toftegaard, H., see Mogensen, M. 202 (1993) 199
Tokizane, M., see Nakata, K. 202 (1993) 39
Tsuji, H., N. Yokoyama, H. Nakajima and T. Kondo, Statistical analyses of variability/reproducibility of environmentally-assisted cyclic crack growth rate data relative to ΔK control modes 202 (1993) 79
Tsuji, T., see Fujino, T. 202 (1993) 154

Venus, G., see Behrisch, R. 202 (1993) 1
Viljoen, P.E., see Eloff, G.A. 202 (1993) 239

Walker, C.T., see Mogensen, M. 202 (1993) 199
Was, G.S., see Cookson, J.M. 202 (1993) 104

Yamada, R., see Nagasaki, T. 202 (1993) 228
Yamamoto, N., see Hasegawa, A. 202 (1993) 266
Yamashita, T., see Fujino, T. 202 (1993) 154
Yokoyama, N., see Tsuji, H. 202 (1993) 79
Yu, G.-P., see Chang, M.-Y. 202 (1993) 145

Zhu, Z., P. Jung and H. Klein, Void swelling and irradiation creep in austenitic and martensitic stainless steels under cyclic irradiation 202 (1993) 222
Zwicky, H.U., E.T. Aerne, A. Hermann, H.A. Thomi and M. Lippens, Radial plutonium and fission product isotope profiles in mixed oxide fuel pins evaluated by secondary ion mass spectrometry 202 (1993) 65

Journal of Nuclear Materials 202 (1993) 295–299
North-Holland

journal of nuclear materials

Subject index

Analytical Instruments and Methods
Pitting corrosion of Inconel 600 in chloride and sulfate solutions at low temperature, M.-Y. Chang and G.-P. Yu 202 (1993) 145

Beryllium, Beryllium Alloys and Compounds
Diffusion and retention of implanted helium in beryllium, P. Jung 202 (1993) 210

Cavities *(includes Voids, Holes)*
Dislocation loop and cavity formation under He-ion irradiation in a Ti-rich TiAl intermetallic compound, K. Nakata, K. Fukai, A. Hishinuma, K. Ameyama and M. Tokizane 202 (1993) 39

Chemical Reactions *(includes Electrochemical and Thermochemical Reactions)*
Durability of an $La_2Zr_2O_7$ waste form containing various amounts of simulated HLW elements, I. Hayakawa and H. Kamizono 202 (1993) 163
Chemical dissolution of ZrO_2 during oxide stripping, B. Cox 202 (1993) 286

Coatings and Coated Particles
Release behavior of metallic fission products from HTGR fuel particles at 1600 to 1900°C, K. Minato, T. Ogawa, K. Fukuda, H. Sekino, H. Miyanishi, S. Kado and I. Takahashi 202 (1993) 47

Compatibility and Corrosion *(includes Stress Corrosion Cracking)*
Irradiation assisted stress corrosion cracking of controlled purity 304L stainless steels, J.M. Cookson, R.D. Carter Jr., D.L. Damcott, M. Atzmon and G.S. Was 202 (1993) 104
Surface improvement of Zr and Zircaloy-2 by metal implantation, Y. Etoh, S. Shimada and H. Takahashi 202 (1993) 122
Pitting corrosion of Inconel 600 in chloride and sulfate solutions at low temperature, M.-Y. Chang and G.-P. Yu 202 (1993) 145
Effects of LiOH on the microstructure of the oxide formed during the aqueous corrosion of a Zr–2.5 wt% Nb alloy, Y. Ding and D.O. Northwood 202 (1993) 180
The effect of alloying elements on Zircaloy corrosion, J.H. Harding 202 (1993) 216

Creep and Stress Relaxation
Bowing behavior of a cold-worked 316 stainless steel duct, J.P. Foster, T.K. Houghtaling and A. Boltax 202 (1993) 275

Crystallographic Properties
Experimental evaluation of oxygen solubility in UN, PuN and (U, Pu)N, G.C. Jain and C. Ganguly 202 (1993) 245

Diffusion
Release behavior of metallic fission products from HTGR fuel particles at 1600 to 1900°C, K. Minato, T. Ogawa, K. Fukuda, H. Sekino, H. Miyanishi, S. Kado and I. Takahashi 202 (1993) 47
Diffusion and retention of implanted helium in beryllium, P. Jung 202 (1993) 210

Divertor Materials
Heat removal by the divertor plate and limiter materials in fusion reactors, R. Behrisch and G. Venus 202 (1993) 1

Electrical Properties
High temperature electrical conductivity and conduction mechanism of $(U, Pu)O_{2\pm x}$ at low oxygen partial pressures, T. Fujino, T. Yamashita, K. Ohuchi, K. Naito and T. Tsuji 202 (1993) 154

Electron Microscopy
Dislocation loop and cavity formation under He-ion irradiation in a Ti-rich TiAl intermetallic compound, K. Nakata, K. Fukai, A. Hishinuma, K. Ameyama and M. Tokizane 202 (1993) 39
Effects of LiOH on the microstructure of the oxide formed during the aqueous corrosion of a Zr–2.5 wt% Nb alloy, Y. Ding and D.O. Northwood 202 (1993) 180
Chemical dissolution of ZrO_2 during oxide stripping, B. Cox 202 (1993) 286

Environmental Effects
Statistical analyses of variability/reproducibility of environmentally-assisted cyclic crack growth rate data relative to ΔK control modes, H. Tsuji, N. Yokoyama, H. Nakajima and T. Kondo 202 (1993) 79

Fabrication
Fabrication of very high density fuel pellets of thorium dioxide, T. Shiratori and K. Fukuda 202 (1993) 98

Fatigue
Statistical analyses of variability/reproducibility of environmentally-assisted cyclic crack growth rate data relative to ΔK control modes, H. Tsuji, N. Yokoyama, H. Nakajima and T. Kondo 202 (1993) 79

Fission Products
A thermodynamic database for tellurium-bearing systems relevant to nuclear technology, G. Chattopadhyay and J.M. Juneja 202 (1993) 10
Release behavior of metallic fission products from HTGR fuel particles at 1600 to 1900°C, K. Minato, T. Ogawa, K. Fukuda, H. Sekino, H. Miyanishi, S. Kado and I. Takahashi 202 (1993) 47
Radial plutonium and fission product isotope profiles in mixed oxide fuel pins evaluated by secondary ion mass spectrometry, H.U. Zwicky, E.T. Aerne, A. Hermann, H.A. Thomi and M. Lippens 202 (1993) 65
Observations of athermal gas release from water-reactor fuel at extended burnup, M. Mogensen, C. Bagger, H. Toftegaard, P. Knudsen and C.T. Walker 202 (1993) 199

Fracture and Fracture Toughness
Irradiation assisted stress corrosion cracking of controlled purity 304L stainless steels, J.M. Cookson, R.D. Carter Jr., D.L. Damcott, M. Atzmon and G.S. Was 202 (1993) 104

Fuels and Fuel Elements
Radial plutonium and fission product isotope profiles in mixed oxide fuel pins evaluated by secondary ion mass spectrometry, H.U. Zwicky, E.T. Aerne, A. Hermann, H.A. Thomi and M. Lippens 202 (1993) 65
Radiative heat transfer in porous uranium dioxide, S.L. Hayes and K.L. Peddicord 202 (1993) 87
Observations of athermal gas release from water-reactor fuel at extended burnup, M. Mogensen, C. Bagger, H. Toftegaard, P. Knudsen and C.T. Walker 202 (1993) 199

Fusion Reactors
Figure of merit to quantify the sensitivity of materials to runaway electrons in a fusion reactor, M. Merola 202 (1993) 29

Helium
Diffusion and retention of implanted helium in beryllium, P. Jung 202 (1993) 210
Effect of helium implantation at 533–573 K on tensile properties of 9Cr martensitic steels, A. Hasegawa, N. Yamamoto and H. Shiraishi 202 (1993) 266

Hydrogen and Hydrides *(includes Deuterium and Deuterides)*
Ion-driven permeation and surface recombination coefficient of deuterium for ion, T. Nagasaki, M. Saidoh, R. Yamada and H. Ohno 202 (1993) 228

Impurities
The effect of oxygen impurity on the characteristics of uranium and uranium–plutonium mixed nitride fuels, Y. Arai, M. Morihira and T. Ohmichi 202 (1993) 70
On the thermoelectric power variation according to temperature of zirconium alloys and its possible application to the estimation of the amount of solubility variations of iron and chromium in Zircaloy, K. Loucif, P. Merle and R. Borrelly 202 (1993) 193

Iron Irradiation
Dislocation loop and cavity formation under He-ion irradiation in a Ti-rich TiAl intermetallic compound, K. Nakata, K. Fukai, A. Hishinuma, K. Ameyama and M. Tokizane 202 (1993) 39
Irradiation assisted stress corrosion cracking of controlled purity 304L stainless steels, J.M. Cookson, R.D. Carter Jr., D.L. Damcott, M. Atzmon and G.S. Was 202 (1993) 104
Surface improvement of Zr and Zircaloy-2 by metal implantation, Y. Etoh, S. Shimada and H. Takahashi 202 (1993) 122
Void swelling and irradiation creep in austenitic and martensitic stainless steels under cyclic irradiation, Z. Zhu, P. Jung and H. Klein 202 (1993) 222

Iron, Iron Alloys *(excludes Steels)* **and Compounds**
Ion-driven permeation and surface recombination coefficient of deuterium for ion, T. Nagasaki, M. Saidoh, R. Yamada and H. Ohno 202 (1993) 228

Kinetics
Improvement in oxidation resistance of Zircaloy-4 by surface alloying with a thin layer of palladium, G.A. Eloff, C.J. Greyling and P.E. Viljoen 202 (1993) 239
Materials interactions during high temperature transients: Discussion about the use of the kinetic rate constants in Zircaloy oxidation, R. Piotrkowski, A. Denis, J. Kovacs and E.A. García 202 (1993) 252

Limiter Materials
Heat removal by the divertor plate and limiter materials in fusion reactors, R. Behrisch and G. Venus 202 (1993) 1

Low Activation and Low Activation Materials *(includes Reduced Activation)*
Effect of helium implantation at 533–573 K on tensile properties of 9Cr martensitic steels, A. Hasegawa, N. Yamamoto and H. Shiraishi 202 (1993) 266

Mathematical and Computational Methods
Radiative heat transfer in porous uranium dioxide, S.L. Hayes and K.L. Peddicord 202 (1993) 87
Materials interactions during high temperature transients: Discussion about the use of the kinetic rate constants in Zircaloy oxidation, R. Piotrkowski, A. Denis, J. Kovacs and E.A. García 202 (1993) 252

Mechanical Properties *(not listed elsewhere)*
Mechanical properties of reactor pressure vessel steels studied by static and dynamic torsion tests, A. Munier, M. Maamouri, R. Schaller and O. Mercier 202 (1993) 54

Metals, Alloys and Compounds *(not listed elsewhere)*
Dislocation loop and cavity formation under He-ion irradiation in a Ti-rich TiAl intermetallic compound, K. Nakata, K. Fukai, A. Hishinuma, K. Ameyama and M. Tokizane 202 (1993) 39

Neutron Irradiation
Precipitation hardening and radiation damageability of austenitic stainless steels, V.V. Sagaradze, V.M. Nalesnik, S.S. Lapin and V.M. Aliabev 202 (1993) 137
Bowing behavior of a cold-worked 316 stainless steel duct, J.P. Foster, T.K. Houghtaling and A. Boltax 202 (1993) 275

Nickel, Nickel Alloys and Compounds
Pitting corrosion of Inconel 600 in chloride and sulfate solutions at low temperature, M.-Y. Chang and G.-P. Yu 202 (1993) 145

Permeation
Ion-driven permeation and surface recombination coefficient of deuterium for ion, T. Nagasaki, M. Saidoh, R. Yamada and H. Ohno 202 (1993) 228

Phase Equilibria *(includes Constitution, Phase Stability, Phase Instability)*
Precipitation hardening and radiation damageability of austenitic stainless steels, V.V. Sagaradze, V.M. Nalesnik, S.S. Lapin and V.M. Aliabev 202 (1993) 137

Physical Properties *(not listed elsewhere)*
Figure of merit to quantify the sensitivity of materials to runaway electrons in a fusion reactor, M. Merola 202 (1993) 29

Plutonium, Plutonium Alloys and Compounds
Radial plutonium and fission product isotope profiles in mixed oxide fuel pins evaluated by secondary ion mass spectrometry, H.U. Zwicky, E.T. Aerne, A. Hermann, H.A. Thomi and M. Lippens 202 (1993) 65
The effect of oxygen impurity on the characteristics of uranium and uranium–plutonium mixed nitride fuels, Y. Arai, M. Morihira and T. Ohmichi 202 (1993) 70
Experimental evaluation of oxygen solubility in UN, PuN and (U, Pu)N, G.C. Jain and C. Ganguly 202 (1993) 245

Pores *(includes Porosity, Fabrication Pores)*
Radiative heat transfer in porous uranium dioxide, S.L. Hayes and K.L. Peddicord 202 (1993) 87

Powder Processes and Products
Fabrication of very high density fuel pellets of thorium dioxide, T. Shiratori and K. Fukuda 202 (1993) 98

Pressure Vessels
Statistical analyses of variability/reproducibility of environmentally-assisted cyclic crack growth rate data relative to ΔK control modes, H. Tsuji, N. Yokoyama, H. Nakajima and T. Kondo 202 (1993) 79

Radiation Effects: Atomic Defects
Low-temperature swelling of metals and ceramics, V.A. Borodin, A.I. Ryazanov and D.G. Sherstennikov 202 (1993) 169

Radiation Effects: Extended Defects, Microstructures
Dislocation loop and cavity formation under He-ion irradiation in a Ti-rich TiAl intermetallic compound, K. Nakata, K. Fukai, A. Hishinuma, K. Ameyama and M. Tokizane 202 (1993) 39

Radiation Effects: Mechanical Properties
Mechanical properties of reactor pressure vessel steels studied by static and dynamic torsion tests, A. Munier, M. Maamouri, R. Schaller and O. Mercier 202 (1993) 54
Effect of helium implantation at 533–573 K on tensile properties of 9Cr martensitic steels, A. Hasegawa, N. Yamamoto and H. Shiraishi 202 (1993) 266

Refractory Metals, Alloys and Compounds *(not listed elsewhere)*
Low-temperature swelling of metals and ceramics, V.A. Borodin, A.I. Ryazanov and D.G. Sherstennikov 202 (1993) 169

Steels, Austenitic
Irradiation assisted stress corrosion cracking of controlled purity 304L stainless steels, J.M. Cookson, R.D. Carter Jr., D.L. Damcott, M. Atzmon and G.S. Was 202 (1993) 104
Precipitation hardening and radiation damageability of austenitic stainless steels, V.V. Sagaradze, V.M. Nalesnik, S.S. Lapin and V.M. Aliabev 202 (1993) 137
Void swelling and irradiation creep in austenitic and martensitic stainless steels under cyclic irradiation, Z. Zhu, P. Jung and H. Klein 202 (1993) 222
Bowing behavior of a cold-worked 316 stainless steel duct, J.P. Foster, T.K. Houghtaling and A. Boltax 202 (1993) 275

Steels, Ferritic
Mechanical properties of reactor pressure vessel steels studied by static and dynamic torsion tests, A. Munier, M. Maamouri, R. Schaller and O. Mercier 202 (1993) 54
Statistical analyses of variability/reproducibility of environmentally-assisted cyclic crack growth rate data relative to ΔK control modes, H. Tsuji, N. Yokoyama, H. Nakajima and T. Kondo 202 (1993) 79
Void swelling and irradiation creep in austenitic and martensitic stainless steels under cyclic irradiation, Z. Zhu, P. Jung and H. Klein 202 (1993) 222
Effect of helium implantation at 533–573 K on tensile properties of 9Cr martensitic steels, A. Hasegawa, N. Yamamoto and H. Shiraishi 202 (1993) 266

Surface Effects
Ion-driven permeation and surface recombination coefficient of deuterium for ion, T. Nagasaki, M. Saidoh, R. Yamada and H. Ohno 202 (1993) 228

Swelling
Precipitation hardening and radiation damageability of austenitic stainless steels, V.V. Sagaradze, V.M. Nalesnik, S.S. Lapin and V.M. Aliabev 202 (1993) 137
Low-temperature swelling of metals and ceramics, V.A. Borodin, A.I. Ryazanov and D.G. Sherstennikov 202 (1993) 169
Void swelling and irradiation creep in austenitic and martensitic stainless steels under cyclic irradiation, Z. Zhu, P. Jung and H. Klein 202 (1993) 222
Bowing behavior of a cold-worked 316 stainless steel duct, J.P. Foster, T.K. Houghtaling and A. Boltax 202 (1993) 275

Theory and Modelling
Low-temperature swelling of metals and ceramics, V.A. Borodin, A.I. Ryazanov and D.G. Sherstennikov 202 (1993) 169
The effect of alloying elements on Zircaloy corrosion, J.H. Harding 202 (1993) 216

Thermal Reactors
Pitting corrosion of Inconel 600 in chloride and sulfate solutions at low temperature, M.-Y. Chang and G.-P. Yu 202 (1993) 145
Effects of LiOH on the microstructure of the oxide formed during the aqueous corrosion of a Zr–2.5 wt% Nb alloy, Y. Ding and D.O. Northwood 202 (1993) 180

Thermodynamic Properties
A thermodynamic database for tellurium-bearing systems relevant to nuclear technology, G. Chattopadhyay and J.M. Juneja 202 (1993) 10

Thermophysical Properties
Heat removal by the divertor plate and limiter materials in fusion reactors, R. Behrisch and G. Venus 202 (1993) 1
The effect of oxygen impurity on the characteristics of uranium and uranium–plutonium mixed nitride fuels, Y. Arai, M. Morihira and T. Ohmichi 202 (1993) 70
High temperature electrical conductivity and conduction mechanism of $(U, Pu)O_{2\pm x}$ at low oxygen partial pressures, T. Fujino, T. Yamashita, K. Ohuchi, K. Naito and T. Tsuji 202 (1993) 154
On the thermoelectric power variation according to temperature of zirconium alloys and its possible application to the estimation of the amount of solubility variations of iron and chromium in Zircaloy, K. Loucif, P. Merle and R. Borrelly 202 (1993) 193

Experimental evaluation of oxygen solubility in UN, PuN and (U, Pu)N, G.C. Jain and C. Ganguly 202 (1993) 245

Thorium, Thorium Alloys and Compounds

Fabrication of very high density fuel pellets of thorium dioxide, T. Shiratori and K. Fukuda 202 (1993) 98

Uranium, Uranium Alloys and Compounds

The effect of oxygen impurity on the characteristics of uranium and uranium–plutonium mixed nitride fuels, Y. Arai, M. Morihira and T. Ohmichi 202 (1993) 70

Radiative heat transfer in porous uranium dioxide, S.L. Hayes and K.L. Peddicord 202 (1993) 87

High temperature electrical conductivity and conduction mechanism of (U, Pu)$O_{2\pm x}$ at low oxygen partial pressures, T. Fujino, T. Yamashita, K. Ohuchi, K. Naito and T. Tsuji 202 (1993) 154

Observations of athermal gas release from water-reactor fuel at extended burnup, M. Mogensen, C. Bagger, H. Toftegaard, P. Knudsen and C.T. Walker 202 (1993) 199

Experimental evaluation of oxygen solubility in UN, PuN and (U, Pu)N, G.C. Jain and C. Ganguly 202 (1993) 245

Wastes

Durability of an $La_2Zr_2O_7$ waste form containing various amounts of simulated HLW elements, I. Hayakawa and H. Kamizono 202 (1993) 163

Zirconium, Zirconium Alloys and Compounds

Surface improvement of Zr and Zircaloy-2 by metal implantation, Y. Etoh, S. Shimada and H. Takahashi 202 (1993) 122

Effects of LiOH on the microstructure of the oxide formed during the aqueous corrosion of a Zr–2.5 wt% Nb alloy, Y. Ding and D.O. Northwood 202 (1993) 180

On the thermoelectric power variation according to temperature of zirconium alloys and its possible application to the estimation of the amount of solubility variations of iron and chromium in Zircaloy, K. Loucif, P. Merle and R. Borrelly 202 (1993) 193

The effect of alloying elements on Zircaloy corrosion, J.H. Harding 202 (1993) 216

Improvement in oxidation resistance of Zircaloy-4 by surface alloying with a thin layer of palladium, G.A. Eloff, C.J. Greyling and P.E. Viljoen 202 (1993) 239

Materials interactions during high temperature transients: Discussion about the use of the kinetic rate constants in Zircaloy oxidation, R. Piotrkowski, A. Denis, J. Kovacs and E.A. García 202 (1993) 252

Chemical dissolution of ZrO_2 during oxide stripping, B. Cox 202 (1993) 286